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1: Y10745. H.sapiens mRNA fo...[gi:2213442]

Links

LOCUS HSKIR42 1708 bp mRNA linear PRI 03-NOV-1998
 DEFINITION H.sapiens mRNA for inwardly rectifying potassium channel Kir4.2.
 ACCESSION Y10745
 VERSION Y10745.1 GI:2213442
 KEYWORDS inwardly rectifying K⁺ channel; KCNJ15; Kir4.2 gene.
 SOURCE human.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1708)
 AUTHORS Gosset,P., Ghezala,G.A., Korn,B., Yaspo,M.L., Poutska,A.,
 Lehrach,H., Sinet,P.M. and Creau,N.
 TITLE A new inward rectifier potassium channel gene (KCNJ15) localized on
 chromosome 21 in the Down syndrome chromosome region 1 (DCR1)
 JOURNAL Genomics 44 (2), 237-241 (1997)
 MEDLINE 97446144
 REFERENCE 2 (bases 1 to 1708)
 AUTHORS Creau,N.
 TITLE Direct Submission
 JOURNAL Submitted (23-JAN-1997) N. Creau, CNRS URA1335, Faculte de Medecine
 Necker, 156 rue de Vaugirard, 75015 Paris, FRANCE
 REMARK revised by author 17-JUN-1997
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BASE COUNT 464 a 417 c 393 g 434 t
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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Boo

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1: M60451. Human voltage-gat...[gi:308764]

Links

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 DEFINITION Human voltage-gated potassium channel (HK2) mRNA, complete cds.
 ACCESSION M60451
 VERSION M60451.1 GI:308764
 KEYWORDS voltage-gated potassium channel.
 SOURCE Homo sapiens adult left ventricular cardiac muscle cDNA to mRNA.
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2118)
 AUTHORS Tamkun, M.M., Knoth, K.M., Walbridge, J.A., Kroemer, H., Roden, D.M. and
 Glover, D.M.
 TITLE Molecular cloning and characterization of two voltage-gated K+
 channel cDNAs from human ventricle
 JOURNAL FASEB J. 5 (3), 331-337 (1991)
 MEDLINE 91160866
 PUBMED 2001794
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1: M60450. Human voltage-gat...[gi:308762]

Links

LOCUS HUMVENHK1 2445 bp mRNA linear PRI 14-JAN-1995
 DEFINITION Human voltage-gated potassium channel (HK1) mRNA, complete cds.
 ACCESSION M60450
 VERSION M60450.1 GI:308762
 KEYWORDS voltage-gated potassium channel.
 SOURCE Homo sapiens ventricular cardiac muscle cDNA to mRNA.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 2445)
 AUTHORS Tamkun,M.M., Knoth,K.M., Walbridge,J.A., Kroemer,H., Roden,D.M. and
 Glover,D.M.
 TITLE Molecular cloning and characterization of two voltage-gated K+
 channel cDNAs from human ventricle
 JOURNAL FASEB J. 5 (3), 331-337 (1991)
 MEDLINE 91160866
 PUBMED 2001794
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 CDS 298..2259
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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Boo

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1: M55514. Human potassium c...[gi:189659]

Links

LOCUS HUMPCC 3388 bp mRNA linear PRI 07-JAN-1995
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 SOURCE Human fetal skeletal muscle, cDNA to mRNA.
 ORGANISM Homo sapiens
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 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 3388)
 AUTHORS Philipson,L.H., Schaefer,K., LaMendola,J., Bell,G.I. and
 Steiner,D.F.
 TITLE Sequence of a human fetal skeletal muscle potassium channel cDNA
 related to RCK4
 JOURNAL Nucleic Acids Res. 18 (23), 7160 (1990)
 MEDLINE 91088321
 PUBMED 2263489
 REFERENCE 2 (bases 1 to 3388)
 AUTHORS Philipson,L.H., Hice,R.E., Schaefer,K., LaMendola,J., Bell,G.I.,
 Nelson,D.J. and Steiner,D.F.
 TITLE Sequence and functional expression in Xenopus oocytes of a human
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 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 88 (1), 53-57 (1991)
 MEDLINE 91095456
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1: L28168. Homo sapiens card...[gi:452493]

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 SOURCE Homo sapiens adult cardiac muscle cDNA to mRNA.
 ORGANISM Homo sapiens
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 REFERENCE 1 (bases 1 to 408)
 AUTHORS Folander,K., Williams,J.B., Strauss,H.C., Lazarides,E. and Swanson,R.
 TITLE The Human IsK Potassium Channel Gene: expression in fetal and adult heart, assignment to human chromosome 21q22, and an RFLP that distinguishes two alleles
 JOURNAL Unpublished (1994)
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Revised: July 5, 2002.

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Oct 21 2002 11:56:56



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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Bpo

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Details

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Links

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 VERSION AF131938.1 GI:5006447
 KEYWORDS .
 SEGMENT 1 of 11
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 434)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 434)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA
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 181 aagggttgc ccctggactt ctccctccca tcccctaccg agccagaccc cgcgagccac
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LOCUS HSKCNN02 1058 bp DNA linear PRI 08-JUN-1999
DEFINITION Homo sapiens small-conductance calcium-activated potassium channel 1 (KCNN1) gene, exon 2.
ACCESSION AF131939

VERSION AF131939.1 GI:5006448
KEYWORDS .
SEGMENT 2 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1058)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 1058)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA
FEATURES Location/Qualifiers
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1 (KCNN1) gene, exon 3.
ACCESSION AF131940
VERSION AF131940.1 GI:5006449
KEYWORDS .
SEGMENT 3 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1481)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 1481)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA
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 DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
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 VERSION AF131941.1 GI:5006450
 KEYWORDS .
 SEGMENT 4 of 11
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 469)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 469)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA
FEATURES Location/Qualifiers
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DEFINITION Homo sapiens small-conductance calcium-activated potassium channel
1 (KCNN1) gene, exon 5.
ACCESSION AF131942
VERSION AF131942.1 GI:5006451
KEYWORDS .
SEGMENT 5 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 708)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human
small-conductance calcium-activated potassium channel gene hSK1
(KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 708)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
USA
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DEFINITION Homo sapiens small-conductance calcium-activated potassium channel 1 (KCNN1) gene, exon 6.

ACCESSION AF131943

VERSION AF131943.1 GI:5006452

KEYWORDS .

SEGMENT 6 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 542)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Gene structure and chromosomal mapping of the human small-conductance calcium-activated potassium channel gene hSK1 (KCNN1)

JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 542)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098, USA

FEATURES Location/Qualifiers

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ACCESSION AF131944
VERSION AF131944.1 GI:5006453
KEYWORDS .
SEGMENT 7 of 11
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 388)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Gene structure and chromosomal mapping of the human small-conductance calcium-activated potassium channel gene hSK1 (KCNN1)
JOURNAL Cytogenet. Cell Genet. (1999) In press
REFERENCE 2 (bases 1 to 388)
AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098, USA
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ACCESSION AF131945
VERSION AF131945.1 GI:5006454
KEYWORDS .
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SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 612)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 612)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA
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 VERSION AF131946.1 GI:5006455
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 SOURCE Homo sapiens.
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Gene structure and chromosomal mapping of the human
 small-conductance calcium-activated potassium channel gene hSK1
 (KCNN1)
 JOURNAL Cytogenet. Cell Genet. (1999) In press
 REFERENCE 2 (bases 1 to 465)
 AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
 TITLE Direct Submission
 JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
 University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
 USA
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DEFINITION     Homo sapiens small-conductance calcium-activated potassium channel
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ACCESSION      AF131947
VERSION         AF131947.1   GI:5006456
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SEGMENT         10 of 11
SOURCE          Homo sapiens.
ORGANISM        Homo sapiens
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                Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE       1 (bases 1 to 795)
AUTHORS         Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE           Gene structure and chromosomal mapping of the human
                small-conductance calcium-activated potassium channel gene hSK1
                (KCNN1)
JOURNAL         Cytogenet. Cell Genet. (1999) In press
REFERENCE       2 (bases 1 to 795)
AUTHORS         Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.
TITLE           Direct Submission
JOURNAL         Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences
                University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098,
                USA
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LOCUS HSKCNN11 1109 bp DNA linear PRI 08-JUN-1999

DEFINITION Homo sapiens small-conductance calcium-activated potassium channel 1 (KCNN1) gene, exon 11 and complete cds.

ACCESSION AF131948

VERSION AF131948.1 GI:5006457

KEYWORDS .

SEGMENT 11 of 11

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1109)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Gene structure and chromosomal mapping of the human small-conductance calcium-activated potassium channel gene hSK1 (KCNN1)

JOURNAL Cytogenet. Cell Genet. (1999) In press

REFERENCE 2 (bases 1 to 1109)

AUTHORS Litt,M., LaMorticella,D.M., Bond,C.T. and Adelman,J.P.

TITLE Direct Submission

JOURNAL Submitted (01-MAR-1999) Mol. Med. Genetics, Oregon Health Sciences University, 3181 S.W. Sam Jackson Pk. Rd., Portland, OR 97201-3098, USA

FEATURES Location/Qualifiers

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PubMed Nucleotide Protein Genome Structure PopSet Taxonomy OMIM Boo

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1: U96110. Homo sapiens cycl...[gi:2138344]

Links

LOCUS HSU96110 1580 bp DNA linear PRI 31-MAY-1997
 DEFINITION Homo sapiens cyclic GMP gated potassium channel (Kcn1) gene, complete cds.
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 VERSION U96110.1 GI:2138344
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 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1580)
 AUTHORS Orias,M., Bray-Ward,P., Curran,M.E., Keating,M.T. and Desir,G.V.
 TITLE Genomic localization of the human gene for KCNA10, a cGMP-activated K channel
 JOURNAL Genomics 42 (1), 33-37 (1997)
 MEDLINE 97321042
 PUBMED 9177773
 REFERENCE 2 (bases 1 to 1580)
 AUTHORS Desir,G.V., Orias,M., Keating,M.T. and Curran,M.E.
 TITLE Direct Submission
 JOURNAL Submitted (02-APR-1997) Internal Medicine, Yale University, 333 Cedar St, New Haven, CT 06510, USA
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The diagram illustrates a single nucleotide sequence. The sequence starts with a bolded 'A' (adenine), followed by a 'T' (thymine). A vertical line connects the two bases. Below the bases, a 'C' (cytosine) is shown, followed by a 'G' (guanine). A vertical line connects the 'C' and 'G'. The labels 'Base', 'Sugar', and 'Phosphate' are placed to the left of the sequence, corresponding to the adenine, thymine, cytosine, and guanine respectively. The entire sequence is enclosed in a dashed rectangular box.

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□1: U73192. Human inward rect...[gi:1765986]

Links

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 REFERENCE 1 (bases 1 to 2896)
 AUTHORS Shuck, M.E., Piser, T.M., Bock, J.H., Slightom, J.L., Lee, K.S. and Bienkowski, M.J.
 TITLE Cloning and characterization of two K⁺ inward rectifier (Kir) 1.1 potassium channel homologs from human kidney (Kir1.2 and Kir1.3)
 JOURNAL J. Biol. Chem. 272 (1), 586-593 (1997)
 MEDLINE 97150765
 PUBMED 8995301
 REFERENCE 2 (bases 1 to 2896)
 AUTHORS Shuck, M.E., Piser, T.M., Bock, J.H., Slightom, J.L., Lee, K.S. and Bienkowski, M.J.
 TITLE Direct Submission
 JOURNAL Submitted (27-SEP-1996) Molecular Biology, Pharmacia & Upjohn, 301 Henriette Street, Kalamazoo, MI 49007, USA
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BASE COUNT 675 a 815 c 658 g 748 t
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 AUTHORS Philipson,L.H., LaMendola,J., Bell,G.I. and Steiner,D.F.
 TITLE Genomic sequence of a human potassium channel related to RCK3
 JOURNAL Unpublished (1990)
 REFERENCE 2 (bases 1 to 1820)
 AUTHORS Philipson,L.H., Hice,R.E., Schaefer,K., LaMendola,J., Bell,G.I.,
 Nelson,D.J. and Steiner,D.F.
 TITLE Sequence and functional expression in Xenopus oocytes of a human
 insulinoma and islet potassium channel
 JOURNAL Proc. Natl. Acad. Sci. U.S.A. 88 (1), 53-57 (1991)
 MEDLINE 91095456
 PUBMED 1986382

FEATURES Location/Qualifiers

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NCBI

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1: L33815. Homo sapiens dela...[gi:603450]

Links

LOCUS HUMISKA 402 bp DNA linear PRI 21-MAR-1995
 DEFINITION Homo sapiens delayed rectifier potassium channel (Isk) gene, complete cds.
 ACCESSION L33815
 VERSION L33815.1 GI:603450
 KEYWORDS delayed rectifier potassium channel.
 SOURCE Homo sapiens adult leukocyte DNA.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 402)
 AUTHORS Lai,L.P., Deng,C.L., Moss,A.J., Kass,R.S. and Liang,C.S.
 TITLE Polymorphism of the gene encoding a human minimal potassium ion channel (minK)
 JOURNAL Gene 151 (1-2), 339-340 (1994)
 MEDLINE 95129890
 PUBMED 7828904
 FEATURES
 source Location/Qualifiers
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LOCUS E12830 1275 bp DNA linear PAT 27-APR-1998
 DEFINITION cDNA encoding human ATP sensitive K channel protein (uKATP-1).
 ACCESSION E12830
 VERSION E12830.1 GI:3251662
 KEYWORDS JP 1997077795-A/1.
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 1 (bases 1 to 1275)
 AUTHORS Kiyono,S. and Inagaki,N.
 TITLE UNEVENLY LOCATED NEW POTASSIUM CHANNEL PROTEIN AND ITS GENE
 JOURNAL Patent: JP 1997077795-A 1 25-MAR-1997;
 KIYONO SUSUMU, NIPPON CHEM RES KK
 COMMENT OS Homo sapiens (human)
 PN JP 1997077795-A/1
 PD 25-MAR-1997
 PF 18-SEP-1995 JP 1995264942
 PI KIYONO SUSUMU, INAGAKI NOBUYA
 PC C07K14/47,A61K38/00,A61K39/395,A61K39/395,C07H21/04,C07K16/18,
 PC C12N5/10,
 PC C12N15/02,C12N15/09,C12P21/02,C12P21/08,C12Q1/68,G01N33/50, PC
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Links

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 VERSION U96110.1 GI:2138344
 KEYWORDS .
 SOURCE Homo sapiens.
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 1580)
 AUTHORS Orias,M., Bray-Ward,P., Curran,M.E., Keating,M.T. and Desir,G.V.
 TITLE Genomic localization of the human gene for KCNA10, a cGMP-activated K channel
 JOURNAL Genomics 42 (1), 33-37 (1997)
 MEDLINE 97321042
 PUBMED 9177773
 REFERENCE 2 (bases 1 to 1580)
 AUTHORS Desir,G.V., Orias,M., Keating,M.T. and Curran,M.E.
 TITLE Direct Submission
 JOURNAL Submitted (02-APR-1997) Internal Medicine, Yale University, 333 Cedar St, New Haven, CT 06510, USA
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 VERSION AF071478.1 GI:4028000
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 SEGMENT 1 of 14
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 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 807)
 AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
 TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
 channels causes epilepsy
 JOURNAL Nature 396 (6712), 687-690 (1998)
 MEDLINE 99087323
 PUBMED 9872318
 REFERENCE 2 (bases 1 to 807)
 AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
 TITLE Direct Submission
 JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
 University of Hamburg, Martinistraße 85, Hamburg 20246, Germany
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DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 2.
ACCESSION AF071479
VERSION AF071479.1 GI:4028001
KEYWORDS
SEGMENT 2 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1245)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 1245)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany
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DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 3.

ACCESSION AF071480

VERSION AF071480.1 GI:4028002

KEYWORDS

SEGMENT 3 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1279)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K⁺ channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 1279)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH, University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

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1021 gtccctggag tagtagcacc cccagtcact gtgacaatca aagttaccca tacatttcca
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1141 agcatcatgt tatgtccatt gtacagaaat agaaacagag gatcacagat ctgagtcatt
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LOCUS HSKCNQP04 1285 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 4.

ACCESSION AF071481

VERSION AF071481.1 GI:4028003

KEYWORDS

SEGMENT 4 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 1285)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K⁺ channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 1285)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMH,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

source 1..1285
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exon 520..692
/gene="KCNQ3"
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/gene="KCNQ3"
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BASE COUNT 303 a 307 c 321 g 354 t

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1261 tgttcagttt caattattat gtaaa

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LOCUS HSKCNQ05 2675 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exons 5 and 6.

ACCESSION AF071482

VERSION AF071482.1 GI:4028004

KEYWORDS

SEGMENT 5 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 2675)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K⁺ channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 2675)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH, University of Hamburg, Martinistraße 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

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/organism="Homo sapiens"
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/rpt_family="MIR"

exon 1946..2056
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/number=6

intron 2057..>2675

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121 atgttaaagct gcatttcacc agtggtacac aaaacgattt caggaactct gtggctctgt
181 cccttcattt aacaatgaa gatactgaga tttggggagaa gaggagaatt tgcccaaggc
241 cacaccataaa actgggtgtca gggctgggtc tctggacaga gaccctgctt tcctgggtgt
301 accgagcttt ctcccttgctc tacgcagttcc tgcataagacc caagtctctt gagtccctgag
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901 gtggagggca tcacatgagc atgttcagcc aggcagctgc attctgcagt cagaggtaa
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1501 gtataactgtat aacataaaaca tggaaacacca cacaagaata tactaaacac accagaacag
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LOCUS HSKCNQP06 937 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 7.

ACCESSION AF071483

VERSION AF071483.1 GI:4028005

KEYWORDS .

SEGMENT 6 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 937)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+ channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 937)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH, University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
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exon 642..737
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intron 738..>937
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/number=7
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LOCUS HSKCNQP07 1035 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 8.
ACCESSION AF071484
VERSION AF071484.1 GI:4028006
KEYWORDS .
SEGMENT 7 of 14

SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 1035)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 1035)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
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LOCUS HSKCNQP08 665 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 9.

ACCESSION AF071485
VERSION AF071485.1 GI:4028007
KEYWORDS .
SEGMENT 8 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 665)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 665)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
source 1..665
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exon 472..498
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intron 499..>665
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/number=9
BASE COUNT 165 a 147 c 161 g 192 t
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LOCUS HSKCNQPO9 784 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 10.
ACCESSION AF071486
VERSION AF071486.1 GI:4028008
KEYWORDS .
SEGMENT 9 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 784)
 AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
 TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
 JOURNAL Nature 396 (6712), 687-690 (1998)
 MEDLINE 99087323
 PUBMED 9872318

REFERENCE 2 (bases 1 to 784)
 AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
 TITLE Direct Submission
 JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMHN,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers
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BASE COUNT 187 a 201 c 175 g 221 t
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LOCUS HSKCNQP10 897 bp DNA linear PRI 17-DEC-1998
 DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 11.
 ACCESSION AF071487
 VERSION AF071487.1 GI:4028009
 KEYWORDS .
 SEGMENT 10 of 14
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 897)
 AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
 TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)
 MEDLINE 99087323
 PUBMED 9872318
 REFERENCE 2 (bases 1 to 897)
 AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
 TITLE Direct Submission
 JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
 University of Hamburg, Martinistraße 85, Hamburg 20246, Germany
 FEATURES Location/Qualifiers
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LOCUS HSKCNQP11 947 bp DNA linear PRI 17-DEC-1998
 DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 12.
 ACCESSION AF071488
 VERSION AF071488.1 GI:4028010
 KEYWORDS
 SEGMENT 11 of 14
 SOURCE Homo sapiens.
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 REFERENCE 1 (bases 1 to 947)
 AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
 TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
 channels causes epilepsy
 JOURNAL Nature 396 (6712), 687-690 (1998)
 MEDLINE 99087323
 PUBMED 9872318
 REFERENCE 2 (bases 1 to 947)
 AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers
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721 ttcgatgtt ccaacaaaac aggatcatcc gaattaaacc gaatccagct gcctaattaa
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LOCUS HSKCNQP12 816 bp DNA linear PRI 17-DEC-1998
DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 13.
ACCESSION AF071489
VERSION AF071489.1 GI:4028011
KEYWORDS
SEGMENT 12 of 14
SOURCE Homo sapiens.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1 (bases 1 to 816)
AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL Nature 396 (6712), 687-690 (1998)
MEDLINE 99087323
PUBMED 9872318
REFERENCE 2 (bases 1 to 816)
AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE Direct Submission
JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMNH,
University of Hamburg, Martinistrasse 85, Hamburg 20246, Germany
FEATURES Location/Qualifiers

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               661 caaagccaga gaagacactc agatatcagc cccctgacaa cattgttaaca cagagagctt
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LOCUS HSKCNQP13 575 bp DNA linear PRI 17-DEC-1998

DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 14.

ACCESSION AF071490

VERSION AF071490.1 GI:4028012

KEYWORDS

SEGMENT 13 of 14

SOURCE Homo sapiens.

ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE 1 (bases 1 to 575)

AUTHORS Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.

TITLE Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K⁺
channels causes epilepsy

JOURNAL Nature 396 (6712), 687-690 (1998)

MEDLINE 99087323

PUBMED 9872318

REFERENCE 2 (bases 1 to 575)

AUTHORS Schroeder,B.C., Kubisch,C. and Jentsch,T.J.

TITLE Direct Submission

JOURNAL Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMH,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany

FEATURES Location/Qualifiers

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421 gaccatccac atcagaaatc gaagacccaa gcatgtatggg gaagttgtt aaagttgaaa
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DEFINITION Homo sapiens potassium channel (KCNQ3) gene, exon 15 and complete
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ACCESSION  AF071491
VERSION    AF071491.1  GI:4028013
KEYWORDS
SEGMENT    14 of 14
SOURCE     Homo sapiens.
ORGANISM   Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE  1 (bases 1 to 903)
AUTHORS   Schroeder,B.C., Kubisch,C., Stein,V. and Jentsch,T.J.
TITLE     Moderate loss of function of cyclic-AMP-modulated KCNQ2/KCNQ3 K+
channels causes epilepsy
JOURNAL   Nature 396 (6712), 687-690 (1998)
MEDLINE   99087323
PUBMED    9872318
REFERENCE  2 (bases 1 to 903)
AUTHORS   Schroeder,B.C., Kubisch,C. and Jentsch,T.J.
TITLE     Direct Submission
JOURNAL   Submitted (10-JUN-1998) Center for Molecular Neurobiology, ZMH,
University of Hamburg, Martinistraße 85, Hamburg 20246, Germany
FEATURES
source    Location/Qualifiers
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           AF071486.1:1..784,AF071487.1:1..897,AF071488.1:1..947,
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